

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): Method for the production of a material, whereby an aluminum-based alloy having a content of 5.5 to 13.0 mass-% silicon and a content of magnesium according to the formula

$$\text{Mg [mass-%]} = 1.73 \times \text{Si [mass-%]} + m$$

where $m = 1.5$ to 6.0 mass-% magnesium

as well as having a copper content between 1.0 and 4.0 mass-% is produced, the base alloy is subsequently heat-formed hot-formed at least once, as well as and is thereafter subsequently subjected to a heat treatment consisting of solution heat treatment, quenching, and artificial aging.

Claim 2 (Previously Presented): Method according to claim 1, wherein the base alloy is produced by means of spray compacting.

Claim 3 (Previously Presented) : Method according to claim 1, wherein the base alloy is produced by means of the method of continuous casting.

Claim 4 (Previously Presented) : Method according to claim 1, wherein the base alloy is produced by means of the method of chill casting.

Claim 5 (Currently Amended) : Method according to claim 3 wherein the base alloy contains 0.5-1.5 wt.-% magnesium phosphate for the purpose of increasing the grain fineness of the primary magnesium silicide that forms in the base alloy.

Claim 6 (Previously Presented) : Method according to claim 1, wherein the base alloy is hot-formed by means of extrusion, hot rolling, or forging.

Claim 7 (Previously Presented) : Method according to claim 3, wherein the hot forming is carried out with a degree of deformation greater than five times.

Claim 8 (Previously Presented): Method according to claim 1, wherein 1.5 to 3.0 mass-% copper are alloyed in.

Claim 9 (Previously Presented): Method according to claim 1, wherein the aluminum used does not contain more than 1 mass-% foreign elements.

Claim 10 (Previously Presented): Method according to claim 1, wherein the material is heated through at 500°C for 2 h, quenched in water, and subsequently annealed at 210°C for 10 h.

Claim 11 (Currently Amended): Material on the basis of an aluminum alloy, which can be obtained by means of ~~a~~ the method according to claim 1.

Claim 12 (Canceled).

Claim 13 (Canceled).

Claim 14 (New): Method according to claim 1, further comprising using the base alloy that has undergone hot-forming,

solution heat treatment, quenching, and artificial aging to produce a component.

Claim 15 (New) : Method according to claim 14, wherein said component is a piston for an internal combustion engine.